SPYWOLF

Security Audit Report

Completed on

July 19, 2023

OVERVIEW

This audit has been prepared for **CakeBot** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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CakeBot

PROJECT DESCRIPTION

According to their whitepaper:

Introducing CakeBot, the world's first and fastest elite sniper bot, designed exclusively for the Binance Smart Chain.

The main goal of this Telegram bot is to combine the exceptional features of Maestro and Unibot to provide the finest trading experiences to Binance Smart Traders.

Release Date: Presale starts in July, 2023

Category: Token

CONTRACT INFO

Token Name
CakeBot

Symbol
CAKEBOT

Contract Address
0x191bAfA2bD96D4809146c04459209809B07D0E92

Network
Binance Smart Chain

Language
Solidity

Deployment Date
Jul 19, 2023

Verified?
Yes

Total Supply
1,000,000

Status
Not launched

TAXES

Buy Tax
5%

Sell Tax
5%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000 CAKEBOT
Median Transfer Amount	1000000 CAKEBOT
Average Transfer Amount	1000000 CAKEBOT
First transfer date	Jul-19-2023 05:10:57 AM +UTC
Last transfer date	Jul-19-2023 05:10:57 AM +UTC
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	Jul-19-2023 05:10:57 AM +UTC
Created	Jul-19-2023 05:10:57 AM +UTC
Create TX	0x7af7a08176d7d54b2649224523beb1a79cd11f48e722e709da14bfdde0dea509
Creator	0x811ddc789f4c8f0d0db0e1e0e8b16a30c05b4614

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ High Risk

Owner can set buy/sell fees up to 100%.
When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.
Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setFee(uint256 redisFeeOnBuy, uint256 redisFeeOnSell, uint256 taxFeeOnBuy, uint256 taxFeeOnSell) public onlyOwner {
    require(redisFeeOnBuy >= 0 && redisFeeOnBuy <= 4, "Buy rewards must be between 0% and 4%");
    require(taxFeeOnBuy >= 0 && taxFeeOnBuy <= 98, "Buy tax must be between 0% and 98%");
    require(redisFeeOnSell >= 0 && redisFeeOnSell <= 4, "Sell rewards must be between 0% and 4%");
    require(taxFeeOnSell >= 0 && taxFeeOnSell <= 98, "Sell tax must be between 0% and 98%");

    _rewardFeeOnBuy = redisFeeOnBuy;
    _rewardFeeOnSell = redisFeeOnSell;
    _taxFeeOnBuy = taxFeeOnBuy;
    _taxFeeOnSell = taxFeeOnSell;

}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.

FOUND THREATS

⚠ Medium Risk

Owner can change contract's autoswap settings.
If _swapTokensAtAmount is set to 0 and swapEnabled is set to true and contract's token balances are 0, contract will halt on sell and selling will fail.

```
function setMinSwapTokensThreshold(uint256 swapTokensAtAmount) public onlyOwner {
    _swapTokensAtAmount = swapTokensAtAmount;
}

function toggleSwap(bool _swapEnabled) public onlyOwner {
    swapEnabled = _swapEnabled;
}

function _transfer(address from, address to, uint256 amount) private {
.............................
    uint256 contractTokenBalance = balanceOf(address(this));
    bool canSwap = contractTokenBalance >=  swapTokensAtAmount;

    if(contractTokenBalance >= _maxTxAmount)
    {
        contractTokenBalance = _maxTxAmount;
    }

    if (canSwap && !inSwap && from != uniswapV2Pair && swapEnabled
        && !_isExcludedFromFee[from] && !_isExcludedFromFee[to]) {
        swapTokensForEth(contractTokenBalance);
        uint256 contractETHBalance = address(this).balance;
        if (contractETHBalance > 0) {
            sendETHToFee(address(this).balance);
        }
    }
    ...............................
}
```

- Recommendation:
    - Ensure that _swapTokensAtAmount’s value is always above 0 tokens (consider decimals).

Informational

Development and marketing wallet can withdraw BNB from the contract. When this function is present, in cases BNB tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function manualsend() external {
    require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

Owner can exclude address from fees.
When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeMultipleAccountsFromFees(address[] calldata accounts, bool excluded) public onlyOwner {
    for(uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFee[accounts[i]] = excluded;
    }
}
```

Owner can set max transaction limit but cannot lower it than 2% of total supply.

```
uint256 public _maxTxAmount = 20000 * 10 ** _decimals;
function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
    require(maxTxAmount > _maxTxAmount, "You can't reduce max amount.");
    _maxTxAmount = maxTxAmount;

}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

CakeBot

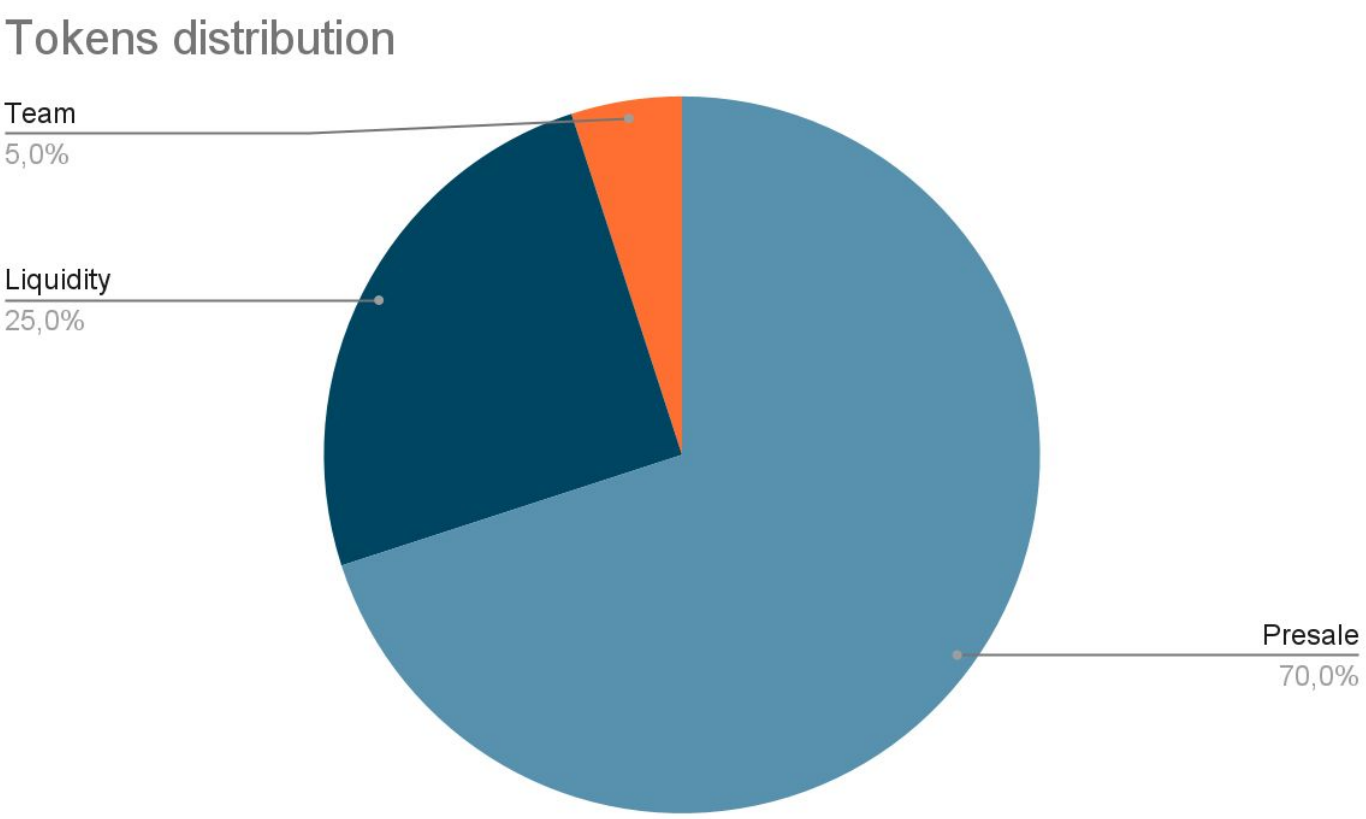
GOOD PRACTICES FOUND

- ✔ The owner cannot mint new tokens after deployment
- ✔ The owner can set max transaction limit but cannot lower it than 2% of total supply
- ✔ The smart contract utilizes "SafeMath" to prevent overflows

TOKENOMICS

The following tokenomics are based on the project's whitepaper and/or website:

- 70% - Presale
- 25% - Liquidity
- 5% - Team



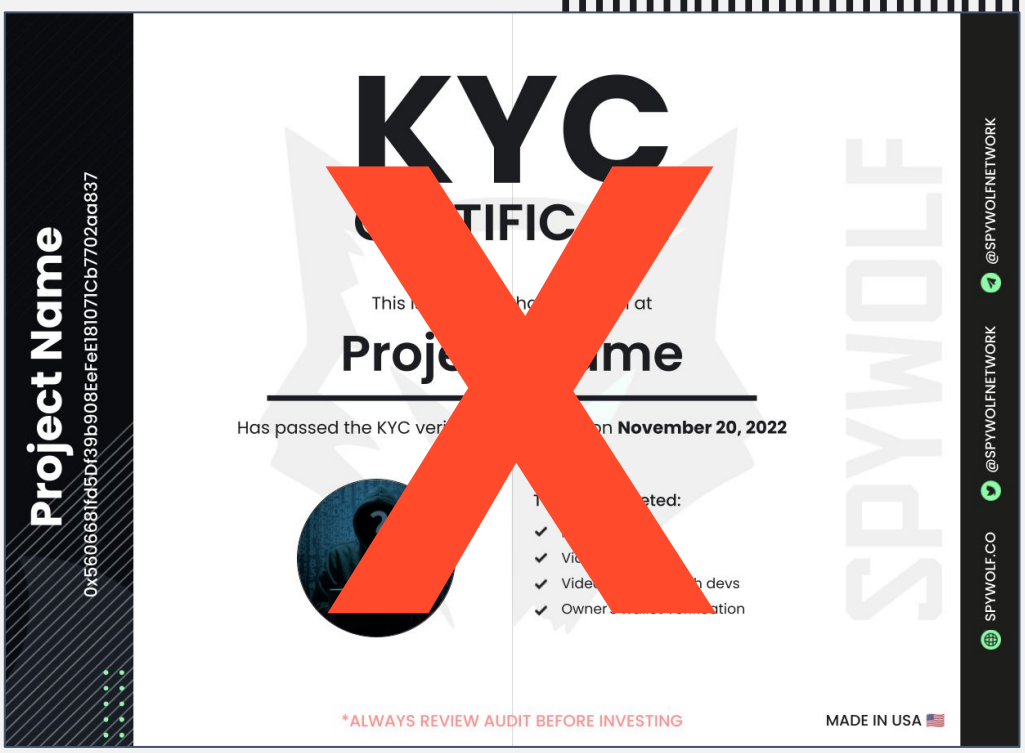
THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.



WEBSITE

Website URL
https://cakebot.app/

Domain Registry
https://domains.google.com

Domain Expiration
2023-12-30

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

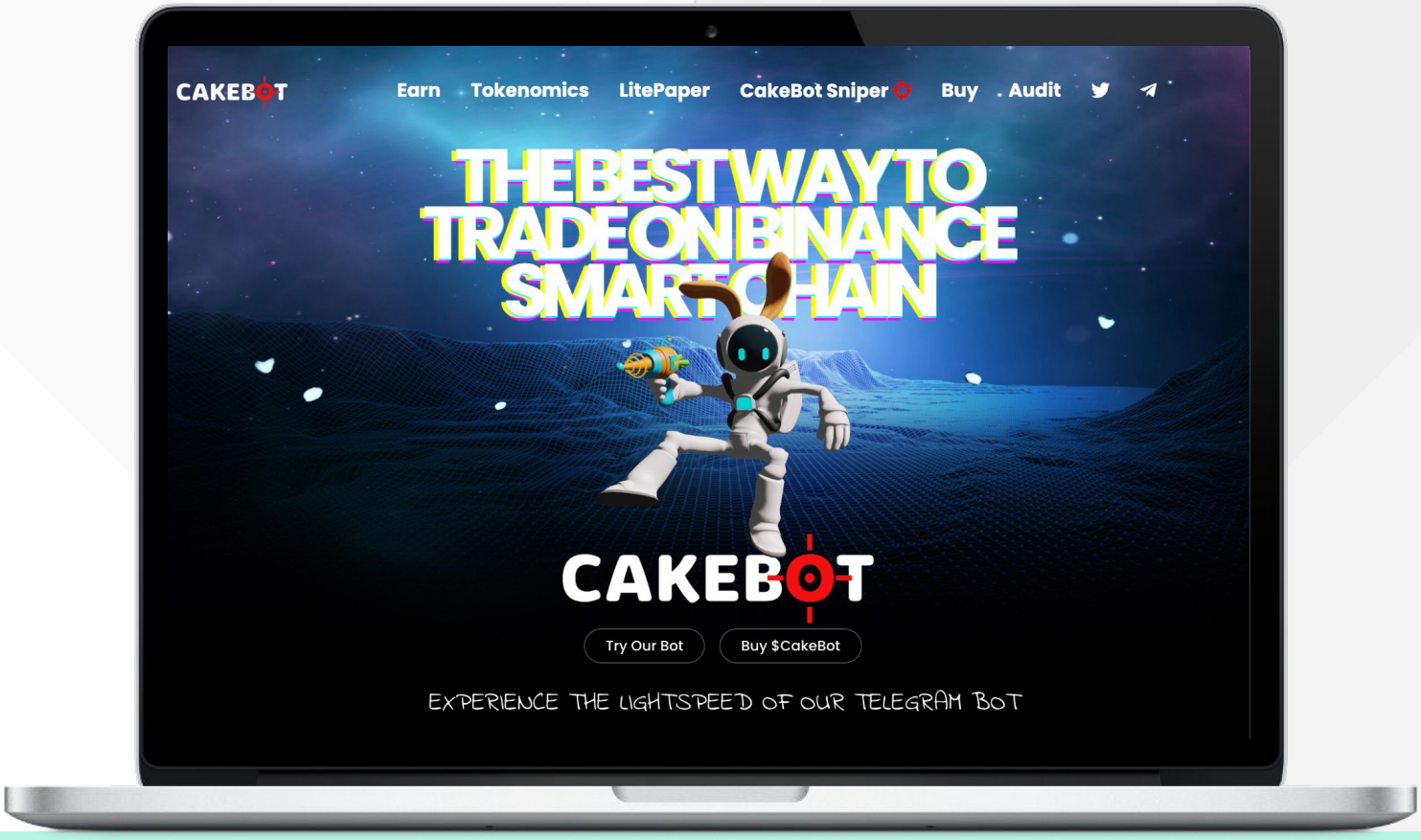
Design
Very nice design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Well written, explanatory.

Roadmap
No

Mobile-friendly?
Yes



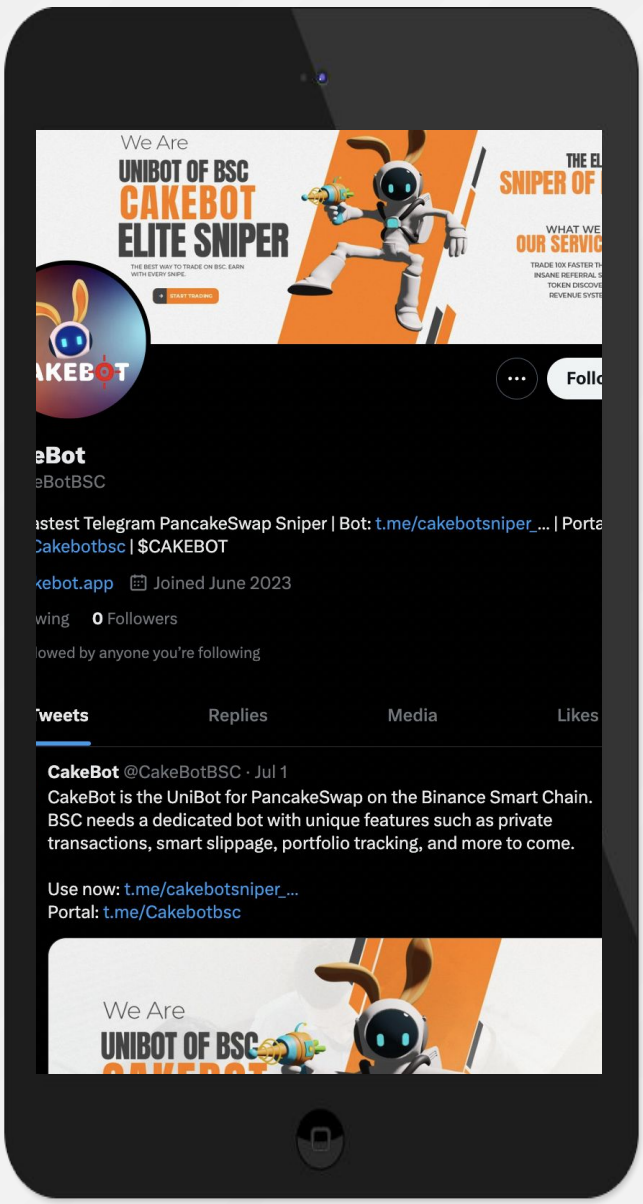
cakebot.app

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are new



Twitter

@CakeBotBSC

- No followers
- 1 total post
- New account

Discord

- Not available

Telegram

@Cakebotbsc

- 23 members
- 1 total post

Medium

- Not available

SPYWOLF

CRYPTO SECURITY

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.